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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,924	06/22/2006	Philippe Le Roy	PF030185	4851
²⁴⁴⁹⁸ Joseph J. Laks	7590 12/30/200	EXAMINER		
Thomson Licen		LEIBY, CHRISTOPHER E		
2 Independence Way, Patent Operations PO Box 5312 PRINCETON, NJ 08543			ART UNIT	PAPER NUMBER
			2629	
			MAIL DATE	DELIVERY MODE
			12/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/583,924	LE ROY, PHILIPPE				
Office Action Summary	Examiner	Art Unit				
	CHRISTOPHER E. LEIBY	2629				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on 22 3 This action is FINAL . 2b) ☑ This Since this application is in condition for allowed closed in accordance with the practice under the second seco	s action is non-final. ance except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	awn from consideration.					
9) The specification is objected to by the Examination The drawing(s) filed on 22 June 2006 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	a) accepted or b) objected to e drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

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Detailed Action

1. Claims 1-13 are pending.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 6/22/2006 and 6/12/2007 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner. However, an error has been noted by the examiner wherein IDS filed 6/22/2006 states 2002/0011172 as a pertinent item. In view of NPL of international search report also filed on 6/22/2006 the correct item should instead be 2002/0101172 the erred item will be stricken through with the corrected item written underneath and initialed by examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated byBu (US Patent Application Publication 2002/0101172).

Regarding **independent claim 1**, Bu discloses an active-matrix image display device comprising: several light emitters forming an array of emitters

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distributed in rows and columns (figure 2 and paragraph [0002] wherein an active driving system refers to an active matrix driving system which comprises of a two dimensional arrays of OLEDs in rows and columns); power supply means capable of supplying current simultaneously to all of the emitters of a column during an emission step and a step of programming the emitters (figure 2 reference ground directly connected to transistor 21 wherein the current flowing through the OLED by the DRV shown in figure 2 is in direct relation to the ground connected through transistor 21); means for controlling the emission of the emitters comprising: for each emitter of the array, a current modulator comprising a source electrode, a drain electrode and a gate electrode, a drain current being able to pass through said modulator in order to supply said emitter, for a voltage between the drain or the source and the gate equal to or greater than a trip-threshold voltage (figure 2 reference 21 and paragraphs [0020]-[0022]), for each column of emitters, column address means capable of addressing in succession each emitter of said column of emitters by applying a value representative of a data set point to the gate electrode of the modulator associated with this emitter in order to actuate it (figure 2 reference 4 and paragraphs [0019]-[0022]), during a programming step, for each row of emitters, row select means capable of selecting in succession the emitters of each row of emitters (figure 2 reference 3 and paragraphs [0019]-[0022]), during the programming step and for each modulator, storage means capable of storing electric charges at the gate electrode of the modulator (figure 2 reference 23 and 21 and paragraph [0022]); and tripthreshold voltage compensation means comprising comparators, the comparators being capable of comparing, during the step of programming a

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selected emitter, a value representative of the drain current supplying the selected emitter with the value representative of the data set point for controlling the quantity of charge stored in the storage means, wherein the compensation means comprise, for each column of emitters, a single unit for determining a representative value of the drain current supplying the selected emitter on the basis of a measurement of a representative value of the current for supplying all of the emitters of the column (paragraphs [0020]-[0022] wherein the capacitor 23 of figure 2 is adjusted so that the OLED is not affected by the characteristics of transistor 21 and figure 2 reference 6 for current comparator which compares drive current with a reference current).

Regarding **claim 2**, Bu discloses an image display device, wherein the power supply means for the emitters are connected directly to each modulator of the control means (*figure 2 reference ground directly connected to transistor 21*).

Regarding **claim 3**, Bu discloses an image display device, wherein the power supply means for the emitters are connected directly to each emitter of a column (*many different driving schemes are available to send current to the OLED however in the case of Bu transistor 21 and 54 open or switch to an on state to directly connect the OLED to their respective power supplies).*

Regarding **claim 4**, Bu discloses an image display device, wherein the power supply means for the emitters comprise a voltage supply generator capable of supplying all of the emitters of a column and in that the compensation means are capable of compensating in succession the trip-threshold voltage of each modulator of all of the emitters of a column (*paragraphs* [0020]-[0022] and figure 2 reference 6 and VS and ground).

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Regarding **claim 5**, Bu discloses an image display device, wherein the compensation means further include: a drive generator capable of generating a drive signal applied to the gate of said modulator (*figure 2 reference 4*); and means for modulating the duration of said drive signal according to the value of the data set point and the value of the trip-threshold voltage (*paragraphs [0020]-[0022] wherein switch 54 switches to an off state to stop current from flowing into the OLED and hence stop the duration of emitting light*).

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Regarding **claim 6**, Bu discloses an image display device, wherein the data set point is a data voltage and in that the comparators are capable of emitting a warning signal when the voltage representative of the intensity of the drain current is equal to a number of times said data voltage (*figure 3 N1 and N2 provide the same function as a comparator and generate an output/warning signal through Nd2 and N3d to create a proportional output to the OLED paragraphs [0025]-[0026]).*

Regarding **claim 7**, Bu discloses an image display device, wherein the means for modulating the duration of the drive signal comprise: a switch connected in series with the drive generator (*figure 3 reference P3*); and a control unit capable of switching said switch (*figure 3 reference 6 specifically control unit N1 and N2 disclose whether to increase or decrease/data set point received or warning signal received via using N3 paragraphs [0025]-[0026]*), on the one hand, when the data set point is received, and on the other hand, when the warning signal is received.

Regarding **claim 8**, Bu discloses an image display device, wherein the drive signal generated by the drive generator is amplitude-modulated according

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to the value of the data set point (paragraph [0025]-[0026] disclose wherein the drive current is increased or decreased which is amplitude modulation).

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Regarding **claim 9**, Bu discloses an image display device, wherein the drive generator is a current generator and the modulator is capable of being current-controlled (*figure 6 reference N2 and N1 which is a current mirror current controlled and paragraphs* [0025]-[0026] wherein a drive current is output to the OLED).

Regarding **claim 10**, an image display device, wherein the drive generator is a ramp voltage generator and the modulator is capable of being voltage-controlled.

Such a driving and control scheme does not emphasize any significance as what would be the benefit from applying such organization. Therefor, the examiner asserts that such are based on the design choice of device and provide no specific improvements and are merely inherent variations through the relationship of current and voltage to that disclosed in claim 9. Therefor, claim 10 is rejected on the same grounds as claim 9 and as discussed above.

Regarding **claim 11**, Bu discloses an image display device, wherein the compensation means further include a unit for measuring the intensity of a current, capable of measuring the intensity of the drain current passing through a selected emitter during the programming step (paragraphs [0020]-[0022] wherein transistor 53 is left on to measure intensity of current passing through OLED in a programming step before emitting light).

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Regarding **claim 12**, Bu discloses an image display device, wherein the supply means comprise a line to which the measurement unit is directly connected (*figure 2 reference 6 connected directly to ground*).

Regarding **claim 13**, Bu discloses an image display device, wherein the storage means comprise at least one storage capacitor connected to the gate and to the source of the modulator and in that the compensation means further include reset means capable of applying a voltage pulse to said capacitor in order to discharge it (*figure 2 reference 23 and paragraph [0022] wherein adjustment includes charging and discharging*).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER E. LEIBY whose telephone number is (571)270-3142. The examiner can normally be reached on 9 - 5 Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CL

December 23rd, 2008

/Richard Hjerpe/ Supervisory Patent Examiner, Art Unit 2629